



Supplementary Figure 1 GFAP and Iba1 immunohistochemistry of the mouse and cat brain following vector injection. Immunohistochemistry for GFAP and Iba1 demonstrate lack of astrocytic activation and no inflammatory reaction on the AAV vector injected side of the brain in: **(b, d)** mice at 12-14 weeks post-injection and **(e,f)** cats at 24 weeks post-injection. **(a, c)** Examples of reactive astrogliosis and inflammatory reaction are shown in the mucopolysaccharidosis type VII brain at 5 months of age. Bar = 500 μ m. Hp, hippocampus; ctx, cortex; th, thalamus; cer, cerebellum.